Claims:

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- Procedure for detecting and classifying impurities in longitudinally moving inspection material of textile 5 fibres, characterized in that, for at least two properties that are influenced by impurities, values (4, 5, 43b) for deviations of these properties from a respective standard value (43) are measured and stored in memory,
- the values (4) for the deviations are eliminated according to a predefined rule except for values of one property, a value (5) for the deviation, resulting from values of the remaining property, and a value (45) for the length 15 of the deviation on the inspection material are ascertained, and the impurity is classified according
- Procedure according to Claim 1, characterized in that, 20 for three properties, values (25, 26, 27) for deviations are ascertained and stored in memory, and values for two properties (26, 27) are eliminated.

to this deviation and length.

3. Procedure according to Claim 1, characterized in that a 25 combined value (6, 28) is first ascertained from the values for the deviations of the properties, and there are predefined for the combined value domains (8, 9, 31 - 39) in which such values can be located, and determination of values of which property are to be 30 eliminated is effected on the basis of a domain in which the combined value is located.

4. Procedure according to Claim 1, characterized in that the deviations are conceived as vectors (25 - 27), a total vector (28) is obtained, as a combined value, from the deviations, and domains (31 - 39) are predefined for the end-point (29) of the total vector in the space.

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- 5. Procedure according to Claim 1, characterized in that, in order to measure values for the properties, the inspection material is illuminated with light having a plurality of colours, the reflection of the light is measured separately for each colour, and measured values are compared with standard values and stored in memory as deviations, the deviations are conceived as vectors (25 27) in a space (30), a total vector (28) is obtained, as a combined value, from the deviations,
- domains (31 39) are predefined for the end-point (29)

 20 of the total vector in the space,
 depending on the domain in which the end-point is
 located, at least one first vector (26) is eliminated,
 and
- from the value of a remaining vector (25), an intensity
 is ascertained which is classified together with the
 value for the length (45) of the deviation on the
 inspection material.
- 6. Procedure according to Claim 1, characterized in that
 the deviations are ascertained with the use of
 threshold values (44).

- 7. Procedure according to Claim 1, characterized in that the impurities are classified in a coordinate system (13) which has an axis (14) for values of the length of the deviation and an axis (15) for values for the magnitude of the deviation.
- 8. Procedure according to Claim 1, characterized in that the one axis (15) is divided into a plurality of sections for values for different properties.

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